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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/661,082	09/12/2003	John A. Moon	CV-0040	7101	
75	590 12/27/2005		EXAM	INER	
Gerald L. DePardo			LAVARIAS, ARNEL C		
CyVera Corpor 50 Barnes Park			ART UNIT	PAPER NUMBER	
Wallingford, CT 06492		2872			
			DATE MAILED: 12/27/2009	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	Ü
	10/661,082	MOON ET AL.	
Office Action Summary	Examiner	Art Unit	
	Arnel C. Lavarias	2872	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING  - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory per  - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the meanned patent term adjustment. See 37 CFR 1.704(b).	B DATE OF THIS COMMUNICATION OF THIS COMMUNI	CATION. reply be timely filed ITHS from the mailing date of this communicatio BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 12	<u>2/16/05,10/12/05,9/19/05</u> .		
· <u>=</u>	his action is non-final.		
3) Since this application is in condition for allo		· · · · · · · · · · · · · · · · · · ·	S
closed in accordance with the practice unde	er <i>Ex parte Quayl</i> e, 1935 C.D	0. 11, 453 O.G. 213.	
Disposition of Claims			
4a) Of the above claim(s) is/are without 5) ⊠ Claim(s) <u>65-70</u> is/are allowed.  6) ⊠ Claim(s) <u>24-60,71-74 and 77-82</u> is/are reject 7) ⊠ Claim(s) <u>61-64,75,76 and 83-87</u> is/are object so restriction and the subject to restrict the subject to re	cted.		
Application Papers			
9) The specification is objected to by the Exam	iner.		
10)⊠ The drawing(s) filed on <u>19 September 2005</u>	is/are: a)⊠ accepted or b)[	objected to by the Examiner.	
Applicant may not request that any objection to t	•	• • •	
Replacement drawing sheet(s) including the corn 11) The oath or declaration is objected to by the	•	, , ,	d).
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for fore a) Some * c) None of:		119(a)-(d) or (f).	
1. Certified copies of the priority docume			
<ul><li>2. Certified copies of the priority docume</li><li>3. Copies of the certified copies of the p</li></ul>		·· ——	
application from the International Burn	•	received in this Hational Glage	
* See the attached detailed Office action for a I	, , , ,	received.	
Attachment(s)			
) Notice of References Cited (PTO-892)  Description Notice of Draftsperson's Patent Drawing Review (PTO-948)		fummary (PTO-413) s)/Mail Date	

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2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>12/16/05</u>.

5) [	Notice of Informal F	Patent Application (PT	(O-152)
6) [	Other:		

#### **DETAILED ACTION**

#### Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 9/19/05 has been entered.

#### **Drawings**

2. The drawings were received on 9/19/05. These drawings are acceptable.

#### Response to Amendment

- 3. The amendments to Claims 24, 31, 33, 41-42, 65, 71, 77 in the submission dated 9/19/05 are acknowledged and accepted.
- 4. The addition of Claims 84-87 in the submission dated 9/19/05 is acknowledged and accepted.
- 5. The amendments to Claims 34, 40 in the submission dated 10/12/05 are acknowledged and accepted.

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### Response to Arguments

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- 6. The Applicants argue that, with respect to newly amended Claims 24, 65, 71, and 77, the combined teachings of Grot et al. and Baltes et al. fail to teach or reasonably suggest an optical identification element, an item having the optical identification element, a method for reading a code associated with the optical identification element, and a method for labeling an item, the elements and methods including a substrate being made of a substantially single material and having at least one diffraction grating embedded therein, the grating having a resultant refractive variation within the substantially single material, the grating providing an output optical signal indicative of a code when illuminated by an incident light signal propagating from outside the substrate. After reviewing the Grot et al. and Baltes et al. references, the Examiner agrees, and respectfully withdraws the rejections in Section 14 of the Office Action dated 7/15/05.
- 7. The Applicants similarly argue that, with respect to newly amended Claims 24, 65, 71, and 77, the combined teachings of Frankel and Ravkin et al. fail to teach or reasonably suggest an optical identification element, an item having the optical identification element, a method for reading a code associated with the optical identification element, and a method for labeling an item, the elements and methods including a substrate being made of a substantially single material and having at least one diffraction grating embedded therein, the grating having a resultant refractive variation within the substantially single material, the grating providing an output optical signal indicative of a code when illuminated by an incident light signal propagating from outside the substrate.

  After reviewing the Frankel and Ravkin et al. references, the Examiner agrees, and

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respectfully withdraws the rejections in Sections 15-17 of the Office Action dated 7/15/05.

- 8. It is additionally noted that, based on the amendments made to Claims 24, 65, 71, and 77, the provisional double patenting rejections in Sections 11-12 of the Office Action dated 7/15/05 have not been withdrawn since the amendments are very similar in scope to the recent amendments made to the claims in copending Application Nos. 10/661254 and 10/661031.
- 9. Claims 24-60, 71-74, 77-82 are now rejected as follows.

#### Claim Objections

10. Applicant is advised that should Claim 84 be found allowable, Claim 85 will be objected to under 37 CFR 1.75 as being a substantial duplicate thereof. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

# **Double Patenting**

11. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., In re Berg, 140 F.3d

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1428, 46 USPQ2d 1226 (Fed. Cir. 1998); In re Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Ornum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 24-35, 44-45, 50-55, 57-60, 77-79, 81-82 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over Claims 21-45 of copending Application No. 10/661254. Although the conflicting claims are not identical, they are not patentably distinct from each other because copending Application No. 10/661254 similarly recites an optical identification element for identifying an item and associated methods for reading a code with an optical identification element that is disposed on the item and labeling an item, as set forth in Claims 24-35, 44-45, 50-55, 57-60, 77-79, 81-82 of the instant application. Further, it is noted that 1) 'a synthesized chemical' or the substrate (See for example Claim 21 of copending Application No. 10/661254) generally corresponds to an item as recited in the instant application, and 2) it would have been readily apparent and obvious to one having ordinary skill in the art to perform the methods of reading the encoded optical identification element and encoded particle and labeling an item based on the recited structure provided for the optical identification element and encoded particle.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claims 24-60, 71-74, 77-79, 81-82 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over Claims 20-56, 58-94, 96-98, 114, 116-118, 134 of copending Application No. 10/661031.

Although the conflicting claims are not identical, they are not patentably distinct from each other because copending Application No. 10/661031 similarly recites an optical identification element for identifying an item and associated methods for reading a code with an optical identification element that is disposed on the item and labeling an item, as set forth in Claims 24-60, 71-74, 77-79, 81-82 of the instant application. Further, it is noted that 1) the recited attached 'chemical' or the substrate (See for example Claim 20 of copending Application No. 10/661031) generally corresponds to an item as recited in the instant application, and 2) it would have been readily apparent and obvious to one having ordinary skill in the art to perform the methods of reading the encoded optical identification element and encoded particle and labeling an item based on the recited structure provided for the optical identification element and encoded particle.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

14. Claims 24-29, 31, 41-42, 50, 60, 71-74, 77-79, 81 provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over Claims 20, 26-44 of copending Application No. 10/763995. Although the conflicting claims are not identical, they are not patentably distinct from each other because copending Application No. 10/763995 similarly recites an optical identification element for identifying an item and associated methods for reading a code with an optical identification element that is

disposed on the item and labeling an item, as set forth in Claims 24-29, 31, 41-42, 50, 60, 71-74, 77-79, 81 of the instant application. Further, it is noted that 1) the recited alignment substrate (See for example Claims 20, 35 of copending Application No. 10/763995) generally corresponds to an item as recited in the instant application, and 2) it would have been readily apparent and obvious to one having ordinary skill in the art to perform the methods of reading the encoded optical identification element and encoded particle and labeling an item based on the recited structure provided for the optical identification element and encoded particle.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

## Allowable Subject Matter

- 15. Claims 65-70 are allowed.
- 16. Claims 61-64, 75-76, 83-87 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- The following is a statement of reasons for the indication of allowable subject matter:

  Claim 65 is allowable over the cited art of record for at least the reason that the cited art of record fails to teach or reasonably suggest an item having an optical identification element disposed therein, as generally set forth in Claim 65, the item including, in combination with the features recited in Claim 65, a substrate being made of a substantially single material and having at least one diffraction grating embedded therein,

the grating having a resultant refractive variation within the substantially single material, the grating providing an output optical signal indicative of a code identifying the item when illuminated by an incident light signal propagating from outside the substrate.

Claims 66-70 are dependent on Claim 65, and hence are allowable for at least the same reasons Claim 65 is allowable.

#### Conclusion

18. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arnel C. Lavarias whose telephone number is 571-272-2315. The examiner can normally be reached on M-F 9:30 AM - 6 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Drew Dunn can be reached on 571-272-2312. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Arnel C. Lavarias

Patent Examiner

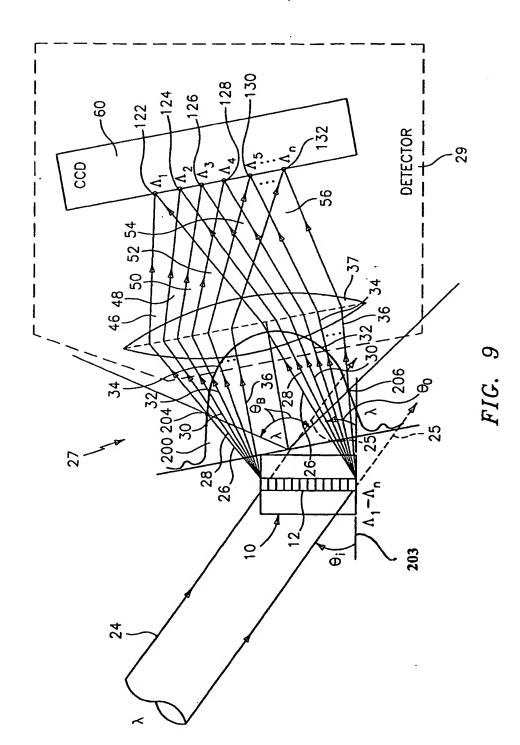
Group Art Unit 2872

. Faranas

12/22/05



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Drawing Changes Approved AM 12/19/05